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(54) **SYSTEMS AND METHODS FOR WIRELESS COMMUNICATIONS**

(57) Abstract:

The invention provides systems and methods that include, inter alia, wireless communication systems that integrate wireless receivers and transmitters with host computer platforms and that include a data access channel that delivers into the memory space of an application program digital data that is representative of a base band modulated signal. Accordingly, these systems can employ wideband digitization of an incoming signal, such as an RF signal, direct the digitized data into the application memory space of a general purpose work station, and allow an application program operating on the general purpose workstation to perform the digital signal processing that obtains the information encoded within the digitized signal.

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